If you are using a printed copy of this procedure, and not the on-screen version, then you <u>MUST</u> make sure the dates at the bottom of the printed copy and the on-screen version match.

The on-screen version of the Collider-Accelerator Department Procedure is the Official Version.

Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ

Training Office, Bldg. 911A.

C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.56.s SEB C3 Target Primary Cave Sweep Checklist

C-A-OPM Procee	dures in which this A	ttachment is used.
4.56		
		-

Hand Processed Changes

HPC No.	<u>Date</u>	Page Nos.	<u>Initials</u>	
	Approved:	Signature on File		
	Colli	der-Accelerator Departn		Date

P. Ingrassia

4.56.s SEB "C3" TARGET PRIMARY CAVE SWEEP CHECKLIST

Team Leader (TL)	Operator 2 (O2)
Time:	_ Date:

Warning:

If any personnel are encountered during the sweep, then they will remain with the sweeper or the sweep shall be aborted. If the sweep is aborted then the person(s) must be escorted out of the cave by unlocking and opening the "C3" Primary Cave (Downstream) Gate.

Prerequisites

- Two Operators to perform the sweep (both trained as contamination workers)
- Keys BNL15, AA225, 501, M, Yale A43368 and Yale A42562 from North Area key ring
- C-A OPM Att 4.56.s SEB "C3" TARGET PRIMARY CAVE SWEEP CHECKLIST (2 pages)
- "C" line set to Controlled Access by simultaneous operation of BNL6 keyswitch & MCR_2-1N2 push-button
- TLD Badges and Alarming Self-Reading Dosimeters
- Yale A42562 and A43368 padlocks (one each)
- C3 Target toggle switch is set to CA in Terminal Room 215 Bldg. 911B
- C3 is a Contamination Area SEE SWEEP RWP for entry requirements
- Flashlight(s) and hand held radio(s)

<u>Initial</u>	
1	Sweep Team goes to C3 Target Downstream Gate.
2	TL verifies with CAS Watch that LESB II Separator is off before starting the sweep.
3	TL requests simultaneous release from MCR to enter C3 Target Downstream Gate.
4	Sweep team enters the "C3" Target <u>Downstream</u> Gate.
5	TL closes and resets the gate. Use the BNL15 key in the keyswitch on the 3059
	security box.
6	TL observes RESET lamp lights.
7	Sweep Team walks up the labyrinth to the LESBII [separator] gate.
8	TL unlocks (M key) and opens LESBII separator gate.
9	TL enters and sweeps LESBII separator cave while O2 remains outside.
10	TL sweeps out LESBII separator cave closes the door and confirms it is locked.
11	TL radios CAS watch to turn LESBII separator on if the LESBII beam is operational.
12	Sweep team goes under C3 and C1 beam lines and walks to C7 gate on the west side
	of the C3 enclosure.
13	TL resets C7 gate using the 501 key in the keyswitch on the 5625 box inside the gate
14	TL observes RESET lamp lights.
15	Sweep team sweeps up the labyrinth to the junction of the labyrinth and the C7 beam.
16	TL stands static watch while O2 walks to downstream end of C7 spur.
17	O2 sweeps upstream from the end of the C7 spur and rejoins TL at the labyrinth.

CONTINUED ON REVERSE SIDE

2

18	Sweep team sweeps upstream to C1Q6 on the west (beam left) side of the cave.
19	O2 stands static watch while TL walks back to C3 Target Downstream Gate.
20	TL confirms C3 Target Downstream Gate is reset.
21	TL sweeps up the labyrinth to the junction of the labyrinth and the C3 beam line.
22	TL operates and closes C3 target shutter using motor control hung from the wall where
	the labyrinth meets the C3 line.
	Note: Select open/close with the switch, then press and hold start/stop buttons.
	Server open erese with the switch, then press that he a stand stop e threshold
23	TL dons contamination protective clothing (booties and gloves) as required.
24	TL walks to downstream end of C3 line.
25	TL sweeps upstream to the C3 Downstream Target Gate labyrinth.
26	TL exits the contamination area.
27	TL removes and properly disposes of protective clothing.
28	TL operates and opens C3 target shutter using motor control hung from the wall where
	the labyrinth meets the C3 line.
	Note:
	Select open/close with the switch, then press and hold start/stop buttons.
29	TL sweeps the east side of the cave adjacent to C3P2.
30	TL searches behind wire fence (FLASHLIGHT) in dead end upstream of <u>C3D4</u> .
31	TL sweeps back to the C3 Downstream Target Gate labyrinth.
32	TL sweeps under C3 and C1 beam lines and rejoins O2 at C1Q6.
33	Sweep team sweeps upstream.
34	Sweep team halts at C3Q4 and TL stands static watch at C3Q4.
35	O2, at C3Q4, goes to east (beam right) side of cave and searches upstream.
36	O2 returns and rejoins TL at <u>C3Q4.</u>
37	Sweep team sweeps upstream to the fence gate at C3D3.
38	IF the fence at C3D3 is NOT closed and padlocked (Yale A43368 and Yale A42562), THEN
	continue with Step 39, or ELSE go to Step 45.
39	O2 stands static watch at the fence gate while TL enters high radiation area.
40	TL quickly walks to upstream end of the enclosure (C1D3).
41	TL sweeps downstream.
42	TL looks under and around C1D4.
43	TL rejoins O2.
44	TL closes and padlocks the fence gate.
45	Sweep Team sweeps up and out the C3 Target Upstream Gate Labyrinth.
46	Sweep team sweeps through the C3 Target <u>Upstream</u> Gate, closes and resets (BNL 15 key)
47	the gate.
47	TL observes yellow RESET lamp light.
48	TL verifies with MCR that "C3 Target Primary Cave" U/S and D/S gates are reset for beam by viewing indicators at MCR 2-1N7 and MCR 2-1N8.
49	TL files the checklist in the section of FYXX Sweep Log Binder.
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